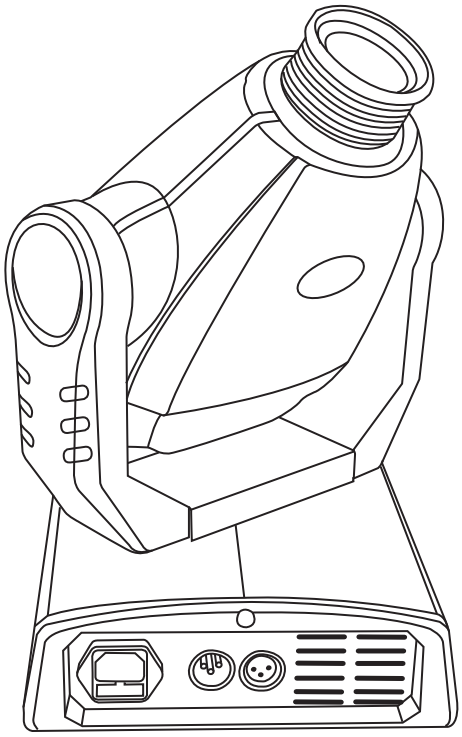
USER´S MANUAL
BEDIENUNGSANLEITUNG
MANUEL D´UTILISATION
MANUAL DE USUARIO
INSTRUKCJA OBSŁUGI
MANUALE D‘USO

cameo®
colours of light

STROBE EFFECT
LED TECHNOLOGY
512 DMX
SOUND TO LIGHT
MASTER/SLAVE
STAND ALONE MODE
GREEN SOLUTION



LED **MOVING HEAD** 25W

CLMHRGB25W

Thank you for choosing Cameo Lights!

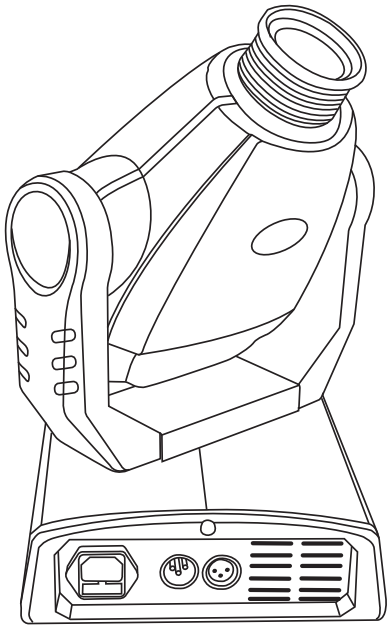
We have designed this product to give you reliable operation over many years.

Please, take a few moments to read these instructions carefully, as we want you to enjoy your new Cameo Lights products quickly and to the fullest.

Further information about Cameo Lights check our website WWW.**CAMEOLIGHT**.COM

LED **MOVING HEAD** 25W

CLMHRGB25W



ENGLISH

DEUTSCH

FRANCAIS

ESPAÑOL

POLSKI

ITALIANO

PREVENTIVE MEASURES:

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1. Please read these instructions carefully.
2. Keep all information and instructions in a safe place.
3. Follow the instructions.
4. Observe all safety warnings. Never remove safety warnings or other information from the equipment.
5. Use the equipment only in the intended manner and for the intended purpose.
6. Use only sufficiently stable and compatible stands and/or mounts (for fixed installations). Make certain that wall mounts are properly installed and secured. Make certain that the equipment is installed securely and cannot fall down.
7. During installation, observ e the applicable safety regulations for your country.
8. Never install and operate the equipment near radiators, heat registers, ovens or other sources of heat. Make certain that the equipment is always installed so that is cooled sufficiently and cannot overheat.
9. Never place sources of ignition, e.g., burning candles, on the equipment.
10. Ventilation slits must not be blocked.
11. Do not use this equipment in the immediate vicinity of water (does not apply to special outdoor equipment - in this case, observe the special instructions noted below. Do not expose this equipment to flammable materials, fluids or gases.
12. Make certain that dripping or splashed water cannot enter the equipment. Do not place containers filled with liquids, such as vases or drinking vessels, on the equipment.
13. Make certain that objects cannot fall into the device.
14. Use this equipment only with the accessories recommended and intended by the manufacturer.
15. Do not open or modify this equipment.
16. After connecting the equipment, check all cables in order to prevent damage or accidents, e.g., due to tripping hazards.
17. During transport, make certain that the equipment cannot fall down and possibly cause property damage and personal injuries.
18. If your equipment is no longer functioning properly, if fluids or objects have gotten inside the equipment or if it has been damaged in anot her way, switch it off immediately and unplug it from the mains outlet (if it is a powered device). This equipment may only be repaired by authorized, qualified personnel.
19. Clean the equipment using a dry cloth.
20. Comply with all applicable disposal laws in your country. During disposal of packaging, please separate plastic and paper/cardboard.
21. Plastic bags must be kept out of reach of children.

FOR EQUIPMENT THAT CONNECTS TO THE POWER MAINS:

22. CAUTION: If the power cord of the device is equipped with an earthing contact, then it must be connected to an outlet with a protective ground. Never deactivate the protective ground of a power cord.
23. If the equipment has been exposed to strong fluctuations in temperature (for example, after transport), do not switch it on immediately. Moisture and condensation could damage the equipment. Do not switch on the equipment until it has reached room temperature.
24. Before connecting the equipment to the power outlet, first verify that the mains voltage and frequency match the values specified on the equipment. If the equipment has a voltage selection switch, connect the equipment to the power outlet only if the equipment values and the mains power values match. If the included power cord or power adapter does not fit in your wall outlet, contact your electrician.
25. Do not step on the power cord. Make certain that the power cable does not become kinked, especially at the mains outlet and/or power adapter and the equipment connector.
26. When connecting the equipment, make certain that the power cord or power adapter is always freely accessible. Always disconnect the equipment from the power supply if the equipment is not in use or if you want

SAFETY:

to clean the equipment. Always unplug the power cord and power adapter from the power outlet at the plug or adapter and not by pulling on the cord. Never touch the power cord and power adapter with wet hands.
27. Whenever possible, avoid switching the equipment on and off in quick succession because otherwise this can shorten the useful life of the equipment.
28. IMPORTANT INFORMATION: Replace fuses only with fuses of the same type and rating. If a fuse blows repeatedly, please contact an authorised service centre.
29. To disconnect the equipment from the power mains completely, unplug the power cord or power adapter from the power outlet.
30. If your device is equipped with a Volex power connector, the mating Volex equipment connector must be unlocked before it can be removed. However, this also means that the equipment can slide and fall down if the power cable is pulled, which can lead to personal injuries and/or other damage. For this reason, always be careful when laying cables.
31. Unplug the power cord and power adapter from the power outlet if there is a risk of a lightning strike or before extended periods of disuse.

CAUTION:
Never remove the cover, because otherwise there may be a risk of electric shock. There are no user serviceable parts inside. Have repairs carried out only by qualified service personnel.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electrical shock.

The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions.

CAUTION – HIGH VOLUME LEVELS WITH AUDIO PRODUCTS!
This equipment is intended for professional use. Therefore, commercial use of this equipment is subject to the respectively applicable national accident prevention rules and regulations. As a manufacturer, Adam Hall is obligated to notify you formally about the existence of potential health risks.
Hearing damage due to high volume and prolonged exposure: When in use, this product is capable of producing high sound-pressure levels (SPL) that can lead to irreversible hearing damage in performers, employees, and audience members. For this reason, avoid prolonged exposure to volumes in excess of 90 dB.

CAUTION! IMPORTANT INFORMATION ABOUT LIGHTING PRODUCTS
1. Do not look into the beam from a distance of less than 40 cm.
2. Do not stare into the beam for extended periods at short-to-medium distances.
3. Do not view the beam directly with optical instruments such as magnifiers.
4. Under some circumstances, stroboscopic effects may trigger epileptic seizures in sensitive individuals! For this reason, persons who suffer from epilepsy should always avoid places where strobe lights are used.

INTRODUCTION:

LED MOVING HEAD 25 W
(CLMHRGB25W)

The Cameo CLMHRGB25W is a compact lightweight moving head with a high-efficiency, low power consumption 25-watt white LED featuring XLR connectors for DMX input and output, an IEC power socket and fan cooling.

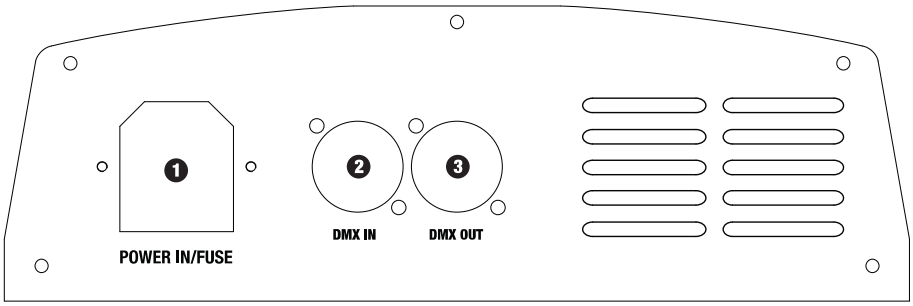
The light can be used open or with one of the seven 21-mm gobos and offers a palette of eight vivid colours plus white. With 540° pan and 270° tilt capability, augmented by dimmer and shutter functions and high-speed stroboscopic effects, it is possible to realise a very wide range of lighting applications.

In addition to the DMX modes with 6 or 11 channels, the CLMHRGB25W can also be operated as a stand-alone unit with program or music control. The easy-to-read LED display and the Mode, Enter, Value Up, and Value Down ensure convenient control of the integral lighting programs.

CONTROL FUNCTIONS
- 6- and 11-channel DMX control
- Separate control of pan and tilt
- Separate control of gobo and colour wheel
- Master/slave mode
- Stand-alone mode

FEATURES
- Colour spectrum: 8 colours + white
- Bright 25 W LED
- Number of gobos: 7 + open
- DMX mode: 6-channel/ 11-channel
- DMX functions: PAN, TILT, Colour Wheel, Gobo Wheel, Shutter, Dimmer, Program
- PAN: 360° / 540°
- TILT: 270°
- High-speed strobe: > 30 Hz
- Stand-alone modes: Auto Run, Sound Control, Show
- Power consumption: 100 W
- Long life LED with especially long service life

CONNECTIONS, CONTROL PANEL AND INDICATORS:



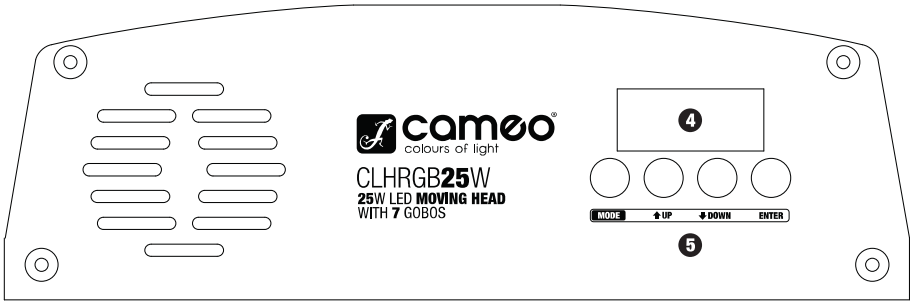
❶ **IEC power socket with fuse holder**
IMPORTANT INFORMATION: Replace the fuse only with a fuse of the same type and rating. If the fuse blows repeatedly, please contact an authorised service centre.

❷ **DMX IN**
3-pole XLR input socket for connection of a DMX controller (e.g., DMX mixer).

❸ **DMX OUT**
3-pole XLR output socket for looping through the DMX control signal.

❹ **LED DISPLAY**
Display of the operating modes and additional system settings.

❺ **CONTROL BUTTONS**
4 easily accessible control buttons let you configure the system.



OPERATION:

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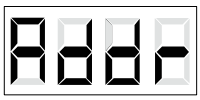
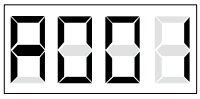
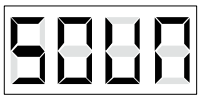
STARTUP
Once you have connected the Cameo LED Moving Head to the power mains, the motor reset process starts automatically. After approx. 20 seconds, the motors are realigned and the unit is operational.Focus the projection by turning the objective ring.

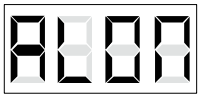
SELECTING THE DMX START ADDRESS
Press the MODE button and then use the UP and DOWN buttons to select the DMX Start Address mode ("Addr" will appear in the display). Now press ENTER and use the UP and DOWN buttons to select the desired DMX start address (A001 - A512). Confirm with ENTER.





MUSIC CONTROL
Press the MODE button ("Addr" will appear in the display) and then use the UP and DOWN buttons to select the Music Control mode ("SOUN" will appear in the display). Now press the ENTER button and use the UP button to select the Master mode (MAST) or DOWN to select the Stand-alone mode (ALON) and confirm with ENTER. The display will now read "SO-M" for Master mode or "SO-A" for Stand-alone mode.
In Master mode, additional lights of the same type can be used as slave units on the master unit. Select the DMX mode for the slave unit and set the DMX start address to 001. Using a DMX cable, connect the slave unit(s) to the master unit (master unit DMX OUT - slave-unit DMX IN). Now the slave unit follows the master unit.
In stand-alone mode, the light operates independently of any other units connected to it.



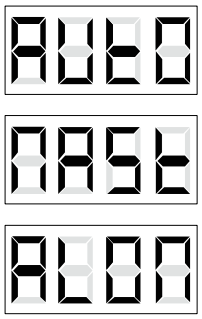


MICROPHONE SENSITIVITY
Press the MODE button ("Addr" will appear in the display) and then use the UP and DOWN buttons to select the menu item for setting the microphone sensitivity ("MIC" will appear in the display). Press ENTER and use the UP and DOWN buttons to select the desired sensitivity (M-00 to M-99). Confirm with ENTER.

OPERATION:

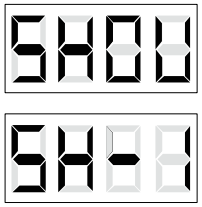
AUTO MODE

Press the MODE button ("Addr" will appear in the display) and then use the UP and DOWN buttons to select the Auto mode ("AUTO" will appear in the display). Now press the ENTER button and use the UP button to select the Master mode (MAST) or DOWN to select the Stand-alone mode (ALON) and confirm with ENTER. The display will now read "AU-M" for Master mode or "AU-A" for Stand-alone mode.
In Master mode, additional lights of the same type can be used as slave units on the master unit. Select the DMX mode for the slave unit and set the DMX start address to 001. Using a DMX cable, connect the slave unit(s) to the master unit (master unit DMX OUT - slave-unit DMX IN). Now the slave unit follows the master unit.
In stand-alone mode, the light operates independently of any other units connected to it.



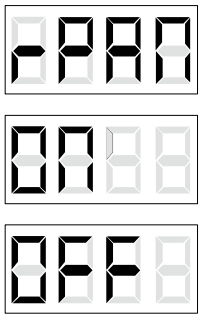
SHOW MODE

Press the MODE button ("Addr" will appear in the display) and then use the UP and DOWN buttons to select the Show mode ("SHOW" will appear in the display). Now press the ENTER button and use the UP button to select Show 1 (SH-1) or DOWN to select Show 2 (SH-2) and confirm with ENTER. Show 1 and Show 2 contain pre-programmed sequences of motion and colour and gobo changes.



REVERSE PAN

This function makes it possible to reverse the PAN motion.
Press the MODE button and then use the UP and DOWN buttons to select the Reverse Pan function ("r PAN" will appear in the display). Now press the ENTER button and use the UP button to select Reverse On (ON) or DOWN to select Reverse Off (OFF).
Confirm with ENTER.



OPERATION:

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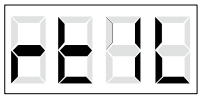
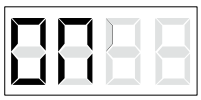
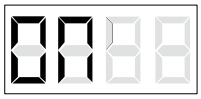
REVERSE TILT
This function makes it possible to reverse the TILT motion.
Press the MODE button and then use the UP and DOWN buttons to select the Reverse Tilt function ("r t I L" will appear in the display). Now press the ENTER button and use the UP button to select Reverse On (ON) or DOWN to select Reverse Off (OFF).
Confirm with ENTER.





REVERSE DISPLAY
This function makes it possible to rotate the characters in the display by 180°. Press the MODE button and then use the UP and DOWN buttons to select the Reverse Display function ("r d I S" will appear in the display). Now press the ENTER button and use the UP button to select Reverse On (ON) or DOWN to select Reverse Off (OFF).
Confirm with ENTER.



PAN ROTATION 360° / 540°
This function can be used to set the maximum pan rotation of the light to either 360° or 540°.
Press the MODE button ("Addr" will appear in the display) and then use the UP and DOWN buttons to select the Pan Rotation function ("d E g r" will appear in the display). Now press the ENTER button and use the UP button to select 360° (360) or DOWN to select 540° (540) and confirm with ENTER.

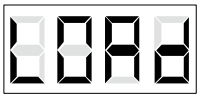
OPERATION:

SELECTING DMX MODE
Use this function to set the light to either the 6-channel or 11-channel mode. Press the MODE button ("Addr" will appear in the display) and then use the UP and DOWN buttons to select the DMX mode selection function ("CHMO" will appear in the display). Now press the ENTER button and use the UP button to select the 6-channel mode (06CH) or DOWN to select the 11-channel mode (11CH) and confirm with ENTER.

FIXTURE TIME
Using this function, the fixture time can be displayed.
Press the MODE button and then use the UP and DOWN buttons to select the fixture time display ("F I t I" appears in the display). Now press the ENTER button. The display shows the number of hours for which the unit has already been in operation.

RESET
Use this function to start the motor reset process.
Press the MODE button and then use the UP and DOWN buttons to select the reset function ("r E s t" appears in the display). Now press the ENTER button. The rest process begins and after approx. 20 seconds the motors are recalibrated and the unit is operational.

FACTORY DEFAULTS
You can use this function to reset the unit to the factory default settings. Press the MODE button and then use the UP and DOWN buttons to select "LOAd". Now press the ENTER button. All settings (microphone sensitivity, reverse display...) have now been reset to the factory defaults. The unit is immediately operational again.



NOTE
If one of the 4 buttons is not pushed, the LED display switches off automatically after approx. 70 seconds. As soon as one of the four buttons is pressed, the display switches on again automatically. In DMX mode, the display blinks as soon as the light no longer receives a DMX signal.

DMX CONTROL:

6-CHANNEL MODE			
CHANNEL		**VALUE**	**FUNCTION**
CH1	Pan	000 - 255	Pan movement 360° / 540°
CH2	Tilt	000 - 255	Tilt movement 270°
CH3	Colour wheel	000 - 013	White
		014 - 027	Yellow
		028 - 041	Magenta
		042 - 055	Green
		056 - 069	Violet
		070 - 083	Cyan
		084 - 097	Bright green
		098 - 111	Amber
		112 - 127	Dark red
		128 - 191	Rainbow, direction of rotation forwards (speed fast - slow)
		192 - 255	Rainbow, direction of rotation forwards (speed fast - slow)
CH4	Gobo wheel	000 - 009	open
		010 - 019	Gobo 1
		020 - 029	Gobo 2
		030 - 039	Gobo 3
		040 - 049	Gobo 4
		050 - 059	Gobo 5
		060 - 069	Gobo 6
		070 - 079	Gobo 7
		080 - 099	Gobo 1 shake, (speed)
		100 - 119	Gobo 2 shake, (speed)
		120 - 139	Gobo 3 shake, (speed)
		140 - 159	Gobo 4 shake, (speed)
		160 - 179	Gobo 5 shake, (speed)
		180 - 199	Gobo 6 shake, (speed)
		200 - 219	Gobo 7 shake, (speed)
		220 - 255	Gobo wheel rotation (speed)

DMX CONTROL:

6-CHANNEL MODE			
CHANNEL		**VALUE**	**FUNCTION**
CH5	Gobo rotation	000 - 127	manual gobo rotation
		128 - 191	Gobo rotation right (speed fast - slow)
		192 - 255	Gobo rotation left (speed slow - fast)
CH6	Shutter	000 - 009	closed
		010 - 019	open
		020 - 127	Stroboscope effect 1 (speed slow - fast)
		128 - 137	open
		138 - 201	Stroboscope effect 2 (speed slow - fast)
		202 - 255	open

11-CHANNEL MODE			
CHANNEL		**VALUE**	**FUNCTION**
CH1	Pan	000 - 255	Pan movement 360° / 540°
CH2	Tilt	000 - 255	Tilt movement 270°
CH3	Pan/tilt movement	000 - 255	Speed of the pan and tilt movement from fast to slow
CH4	Colour wheel	000 - 013	White
		014 - 027	Yellow
		028 - 041	Magenta
		042 - 055	Green
		056 - 069	Violet
		070 - 083	Cyan
		084 - 097	Bright green
		098 - 111	Amber
		112 - 127	Dark red
		128 - 191	Rainbow, direction of rotation forwards (speed fast - slow)
		192 - 255	Rainbow, direction of rotation forwards (speed fast - slow)

DMX CONTROL:

11-CHANNEL MODE			
CHANNEL		**VALUE**	**FUNCTION**
CH5	Gobo wheel	000 - 009	open
		010 - 019	Gobo 1
		020 - 029	Gobo 2
		030 - 039	Gobo 3
		040 - 049	Gobo 4
		050 - 059	Gobo 5
		060 - 069	Gobo 6
		070 - 079	Gobo 7
		080 - 099	Gobo 1 shake, (speed)
		100 - 119	Gobo 2 shake, (speed)
		120 - 139	Gobo 3 shake, (speed)
		140 - 159	Gobo 4 shake, (speed)
		160 - 179	Gobo 5 shake, (speed)
		180 - 199	Gobo 6 shake, (speed)
		200 - 219	Gobo 7 shake, (speed)
		220 - 255	Gobo wheel rotation (speed)
CH6	Gobo rotation	000 - 127	manual gobo rotation
		128 - 191	Gobo rotation right (speed fast - slow)
		192 - 255	Gobo rotation left (speed slow - fast)
CH7	Shutter	000 - 009	closed
		010 - 019	open
		020 - 127	Stroboscope effect 1 (speed slow - fast)
		128 - 137	open
		138 - 201	Stroboscope effect 2 (speed slow - fast)
		202 - 255	open

DMX CONTROL:

11-CHANNEL MODE			
CHANNEL		**VALUE**	**FUNCTION**
CH8	Dimmer	000 - 255	Dimmer 0 - 100%
CH9	Gobo rotation	000 - 016	no function
		017 - 033	Blackout during pan / tilt movement
		034 - 050	Blackout during gobo / colour wheel rotation
		051 - 067	Colour wheel motor and gobo wheel motor reset
		068 - 084	Reset all motors
		085 - 101	Program 1
		102 - 118	Program 2
		119 - 135	Program 3
		136 - 152	Program 4
		153 - 169	Program 5
		170 - 186	Program 6
		187 - 203	Program 7
		204 - 220	Program 8
		221 - 237	Show 1
		238 - 255	Show 2
CH10	Pan fine	000 - 255	Pan fine control
CH11	Tilt fine	000 - 255	Tilt fine control

SPECIFICATIONS:

MODEL NAME:	CLMHRGB25W
Product type:	LED moving light
Type:	Moving head
Colour spectrum:	8 colours + white
Number of LEDs:	1
LED type:	25 W
Number of gobos:	7 + open
Gobo size:	21 mm
DMX input:	XLR 3-pin male
DMX output:	XLR 3-pin female
DMX mode:	6-channel, 11-channel
DMX functions:	PAN, TILT, program, colour wheel, shutter, dimmer, gobo wheel
PAN movement:	360° / 540° (adjustable)
TILT movement:	270°
High-speed stroboscope:	> 30 Hz
Stand-alone modes:	Auto Run, Sound Control, Show
Controls:	Value Up, Mode, Enter, Value Down
Indicators:	LED display
Operating voltage:	230 V AC, 50 Hz
Power consumption:	100 W
Power connector:	IEC power socket male
Housing material:	Metal, ABS plastic
Housing colour:	black
Cooling system:	Fan
Illuminance:	8000 lx @ 1m
Dimensions:	230 x 275 x 320 mm
Weight:	7 kg

MANUFACTURER´S DECLARATIONS:

MANUFACTURER'S WARRANTY

This warranty covers the Adam Hall, LD Systems, Defender, Palmer, and Cameo brands.
It applies to all products distributed by Adam Hall.
This warranty declaration does not affect the statutory warranty claims against the manufacturer, but expands them with additional warranty claims vis-a-vis Adam Hall.

Adam Hall warrants that the Adam Hall product that you have purchased from Adam Hall or from an Adam Hall authorized reseller is free from defects in materials or workmanship under normal use for a period of 2 or 5 years (please inquire on a product-by-product basis) from the date of purchase.

The warranty period begins on the date on which the product was purchased, proof of which must be produced (through presentation of the invoice or the delivery note with the date of purchase) in the event of a warranty claim. Should products of the brands named above be in need of repair within the limited warranty period, you are entitled to warranty service according to the terms and conditions stated here.

During the Limited Warranty Period, Adam Hall will repair or replace the defective component parts or the product. In the event of repair or replacement during the Limited Warranty Period, the replaced original parts and/or products become property of Adam Hall.

In the unlikely event that the product which you purchased has a recurring failure, Adam Hall has the right, at its discretion, to replace the defective product with another product, provided that the new product is at least equivalent to the product being replaced with regard to the technical specifications.

Adam Hall does not warrant that the operation of this product will be uninterrupted or error-free. Adam Hall is not responsible for damage that occurs as a result of your failure to follow the instructions included with the Adam Hall branded product. The manufacturer's warranty does not cover – expendable parts (e. g., rechargeable batteries)
- products from which the serial number has been removed or with a serial number that has been damaged as a result of an accident - damage due to improper use, user error or other external reasons
- damage to devices operated outside the usage parameters stated in the documentation included with the product
- damage due to the use of replacement parts not manufactured, sold or recommended by Adam Hall,
- damage due to modification or servicing by anyone other than Adam Hall.

These terms and conditions constitute the complete and exclusive warranty agreement between you and Adam Hall regarding the Adam Hall branded product you have purchased.

MANUFACTURER´S DECLARATIONS:

LIMITATION OF LIABILITY

If your Adam Hall branded hardware product fails to work as warranted above, your sole and exclusive remedy shall be repair or replacement. Adam Halls' maximum liability under this limited warranty is expressly limited to the lesser of the price you have paid for the product or the cost of repair or replacement of any components that malfunction under conditions of normal use.

Adam Hall is not liable for any damages caused by the product or the failure of the product, including any lost profits or savings or special, incidental, or consequential damages. Adam Hall is not liable for any claim made by a third party or made by you for a third party.

This limitation of liability applies whether damages are sought, or claims are made, under this Limited Warranty or as a tort claim (including negligence and strict product liability), a contract claim, or any other claim, and cannot be rescinded or changed by anyone. This limitation of liability will be effective even if you have advised Adam Hall or an authorized representative of Adam Hall of the possibility of any such damages, but not, however, in the event of claims for damages in connection with personal injuries.

This manufacturer's warranty grants you specific rights; depending on jurisdiction (nation or state), you may be be entitled to additional claims. You are advised to consult applicable state or national laws for a full determination of your rights.

REQUESTING WARRANTY SERVICE

To request warranty service for the product, contact Adam Hall or the Adam Hall authorized reseller from which you purchased the product.

EC DECLARATION OF CONFORMITY

The equipment marketed by Adam Hall complies (where applicable) with the essential requirements and other relevant specifications of Directives 1999/5/EC (R&TTE), 2004/108/EC (EMC) und 2006/95/EC (LVD). Additional information can be found at www.adamhall.com.

MANUFACTURER´S DECLARATIONS:

PROPER DISPOSAL OF THIS PRODUCT

(Valid in the European Union and other European countries with waste separation)

This symbol on the product, or the documents accompanying the product, indicates that this appliance may not be treated as household waste. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. Please dispose of this product separately from other waste and have it recycled to promote sustainable economic activity.

Household users should contact either the retailer where they purchased this product, or their local government office, for details on where and how they can recycle this item in an environmentally friendly manner.
Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal .

ENVIRONMENTAL PROTECTION AND ENERGY CONSERVATION

Energy conservation is an active contribution to environmental protection. Please turn off all unneeded electrical devices. To prevent unneeded devices from consuming power in standby mode, disconnect the mains plug.

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